

Recovery Plan Action Status

Plan Name: Final Revised Recovery Plan for the Southern Sea Otter (*Enhydra lutris nereis*)

Plan Status: Final Revision 1

Plan Date: 03-Apr-03

Lead Agency: USFWS

Lead Office: Ventura Fish And Wildlife Office

(805)

644-1766)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Southern sea otter (<i>Enhydra lutris nereis</i>)	1	1.1	Monitor abundance and distribution, and determine if current estimates are negatively biased	Ongoing Current	Prior to FY 1995		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium	Research: Population Surveys	Internal Field Assistance, Volunteer	
Southern sea otter (<i>Enhydra lutris nereis</i>)	1	1.2	Evaluate causes of otter mortality	Ongoing Current	Prior to FY 1995		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium, National Marine Fisheries Service Southwest Region	Research: Disease	Species Expert	
Southern sea otter (<i>Enhydra lutris nereis</i>)	3	1.3	Develop and implement a post-delisting monitoring plan	Planned			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium	Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	
Southern sea otter (<i>Enhydra lutris nereis</i>)	1	2.1.1	Implement and monitor USCG vessel management plan	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, National Marine Sanctuaries, United States Coast Guard	Management: Other	Internal Technical Assistance	

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Southern sea otter (Enhydra lutris nereis)	2	2.1.2	Assess current risk of tanker accidents and other possible sources of oil spills, including off-shore oil platforms, pipelines, and marine terminals	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Minerals Management Service, United States Coast Guard	Management: Other	Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	2	2.2	Implement an oil spill contingency plan that includes a sea otter response plan.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium	Management: Other	Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	1	3.1.1	Monitor incidental take in commercial fisheries	Ongoing Current	Prior to FY 1995		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, National Marine Fisheries Service Southwest Region	Research: Other Information	Internal Field Assistance	
Southern sea otter (Enhydra lutris nereis)	1	3.1.2	Evaluate the effectiveness of fishing regulations for preventing sea otter take	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, California Department of Fish and Game, National Marine Fisheries Service Southwest Region	Research: Other Information	Internal Field Assistance, Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	1	3.1.3	Evaluate the potential for incidental take in trap/pot fisheries	Partially Complete	FY 1995 - FY 1999		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Monterey Bay Aquarium	Research: Other Information	Internal Field Assistance, Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	1	3.1.4	Determine and take possible steps to reduce or eliminate sea otter mortality incidental to fisheries.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, National Marine Fisheries Service Southwest Region	Other	Internal Field Assistance, Internal Technical Assistance	

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Southern sea otter (Enhydra lutris nereis)	1	3.2	Minimize intentional take	Ongoing Current	Prior to FY 1995		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, National Marine Fisheries Service Southwest Region	Other: Law Enforcement	Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	1	4.1	Estimate the current probability of the population being below 1,850 over the next 10 years. Incorporate this analysis into delisting criteria.	Planned			U.S. Fish and Wildlife Service	Research: Other Information	Contract	
Southern sea otter (Enhydra lutris nereis)	1	4.2	Evaluate differences in life history parameters of sea otters	Partially Complete	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Monterey Bay Aquarium	Research: Demographic Studies	Internal Field Assistance, Internal Technical Assistance, Species Expert	
Southern sea otter (Enhydra lutris nereis)	2	4.3.1	Analyze tissues from southern sea otters for environmental contaminants and archive tissues for future analysis	Ongoing Current	FY 2000 - FY 2004		National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium	Research: Environmental Contaminants	Internal Technical Assistance, Species Expert	
Southern sea otter (Enhydra lutris nereis)	1	4.3.2	Determine sources of environmental contaminants	Partially Complete	FY 2006		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Environmental Protection Agency, Monterey Bay Aquarium, National Oceanic and Atmospheric Administration, National Marine Sanctuaries	Research: Environmental Contaminants	Internal Technical Assistance, Species Expert	
Southern sea otter (Enhydra lutris nereis)	1	4.3.3	Determine contaminant levels in sea otter prey and habitat	Complete	FY 2000 - FY 2004	FY 2005	California Department of Fish and Game, National Oceanic and Atmospheric Administration, National Marine Sanctuaries	Research: Environmental Contaminants	Internal Technical Assistance	

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Southern sea otter (Enhydra lutris nereis)	1	4.3.4	Collect and analyze tissues for evidence of stress or disease	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Environmental Protection Agency, Monterey Bay Aquarium, National Oceanic and Atmospheric Administration, National Marine Sanctuaries	Research: Disease	Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	1	4.3.6	Minimize factors causing stress and disease	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Environmental Protection Agency, National Oceanic and Atmospheric Administration, National Marine Sanctuaries	Management: Disease Control, Management: Other, Management: Planning	Internal Administrative	
Southern sea otter (Enhydra lutris nereis)	3	4.4	Evaluate the potential for habitat related differences in growth rates between populations of sea otters	Partially Complete	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Monterey Bay Aquarium	Research: Demographic Studies	Internal Field Assistance, Internal Technical Assistance, Species Expert	
Southern sea otter (Enhydra lutris nereis)	1	4.5	Estimate effective population size of the southern sea otter population.	Planned			U.S. Fish and Wildlife Service	Research: Demographic Studies	Contract	
Southern sea otter (Enhydra lutris nereis)	1	5	Evaluate the translocation program in light of changed circumstances and determine whether one or more failure criteria have been met	Partially Complete	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Administration, Other: Regulations	Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	3	6	Improve captive sea otter management techniques	Partially Complete	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium	Management: General	Internal Technical Assistance	

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Southern sea otter (Enhydra lutris nereis)	3	7.1	Develop and implement education and interpretation programs on southern sea otters and nearshore ecosystems.	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium, National Oceanic and Atmospheric Administration, National Marine Sanctuaries, Other parties	Other: Information and Education	Internal Technical Assistance	
Southern sea otter (Enhydra lutris nereis)	3	7.2	Create opportunities for public involvement in the recovery of the southern sea otter and its associated ecosystems.	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, California Department of Fish and Game, Monterey Bay Aquarium, National Oceanic and Atmospheric Administration, National Marine Sanctuaries, Other parties	Other: Information and Education	Internal Technical Assistance	